

Application Serial No. 10/701,306
Reply to Office Action of December 21, 2004

PATENT
Docket: CU-3424

Amendments To The Abstract of the Disclosure
MARKED-UP VERSION

The following marked-up version of the amended Abstract is to aid the Examiner in readily identifying the changes:

A clock divider for a DLL circuit ~~can~~ reduces ~~the~~ power consumption by reducing the number of times of performing phase comparison in the DLL circuit when a synchronous memory device is in a power-down mode. The clock divider includes M dividers ~~connected in series~~, and a power-down controller for receiving an output signal of the (M-1)-th divider and an output signal of the M-th divider and selectively outputting the output signals. ~~The respective~~ Each dividers ~~divides the a frequency of a clock signal~~ frequency inputted to the ~~respective dividers into by~~ 1/2, and ~~t~~ The output signal frequency of the power-down controller ~~is has a frequency~~ obtained by dividing the frequency of the clock signal inputted to the first divider into $1/2^M$ or $1/2^{(M-1)}$ ~~in accordance with a~~ depending on the logic level of a control signal, which is indicative of the power down mode of the memory device. ~~The output signal of the third divider is selected in the same manner as the conventional clock divider in the case that the memory device is in a non-power down mode, but the output signal of the fourth divider is selected in the case that the memory device is in the power down mode in which the power consumption of the memory device is reduced, thereby reducing the current loss of the DLL circuit.~~